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 Contraception. 2005 Apr;71(4):272-81.
 PMID: 15792646 [PubMed - in process]

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☐ 2: De Luca A, De Falco M, De Luca L, Penta R, Shridhar V, Baldi F, Campioni M, Paggi MG, Baldi A. Related Articles, Links

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Pattern of expression of HtrA1 during mouse development.
 J Histochem Cytochem. 2004 Dec;52(12):1609-17.
 PMID: 15557215 [PubMed - indexed for MEDLINE]

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☐ 3: Tocharus J, Tsuchiya A, Kajikawa M, Ueta Y, Oka C, Kawaichi M. Related Articles, Links

Journals Database

Developmentally regulated expression of mouse HtrA3 and its role
 as an inhibitor of TGF-beta signaling.
 Dev Growth Differ. 2004 Jun;46(3):257-74.
 PMID: 15206957 [PubMed - indexed for MEDLINE]

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☐ 4: De Luca A, De Falco M, Severino A, Campioni M, Santini D, Baldi F, Paggi MG, Baldi A. Related Articles, Links

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 J Histochem Cytochem. 2003 Oct;51(10):1279-84.
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Identification and cloning of two isoforms of human high-
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 genomic structure and comparison of its tissue distribution with
 HtrA1 and HtrA2.
 Biochem J. 2003 Apr 1;371(Pt 1):39-48.

PMID: 12513693 [PubMed - indexed for MEDLINE]

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=> s HtrA3 (4A) (human or sapien)

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AN 2004:387286 CAPLUS

DN 140:400039

TI Apoptosis inducer

IN Horikoshi, Kenichi; Kitahara, Osamu; Watanabe, Takahiro;
Taniyama, Yoshio;

Nishizawa, Satoru

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 124 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.
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PI	WO 2004039407	A1	20040513	WO 2003-JP13920
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SN, TD, TG

JP 2004248668 A2 20040909 JP 2003-369723
20031030

PRAI JP 2002-320075 A 20021101
JP 2003-17892 A 20030127

AB It is intended to provide an apoptosis inducer or the like
containing a compound
or its salt inhibiting the activity of a protein having an amino
acid,
which is the same or substantially the same as the amino acid
sequence of
HTRA3, its peptide fragment or a salt thereof or the expression
of the
gene thereof.

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:927825 CAPLUS
DN 142:293408

TI Human HtrA proteases

AU Dingwall, Colin; Holbrook, Joanna D.

CS Alzheimer's Disease Research Department, Neurology & GI CEDD,
GlaxoSmithKline, Harlow, CM19 5AW, UK

SO Handbook of Proteolytic Enzymes (2nd Edition) (2004), Volume 2,
1476-1480.

Editor(s): Barrett, Alan J.; Rawlings, Neil D.; Woessner, J.
Fred.

Publisher: Elsevier, London, UK.

CODEN: 69GAQF; ISBN: 0-12-079610-4

DT Conference; General Review

LA English

AB A review. The human HtrA serine proteases (HtrA1-HtrA4) show
extensive

homol. to the Escherichia coli HtrA (high-temperature
requirement) protease,

also known as DegP, which is active in the periplasm of the
bacterium and

is essential for bacterial tolerance of thermal, osmotic and
oxidative

stress. The bacterial protein has the interesting property of
acting as a

mol. chaperone at reduced temperature but acting as a protease
at elevated

temps. The history, activity, specificity, protein structure,
structural

chemical, preparation, and biol. aspects of HtrA proteases are
briefly discussed.

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L3 ANSWER 3 OF 3 MEDLINE on STN
AN 2003132094 MEDLINE

DUPLICATE 1

DN PubMed ID: 12513693
 TI Identification and cloning of two isoforms of human
 high-temperature
 requirement factor A3 (HtrA3), characterization of its genomic
 structure
 and comparison of its tissue distribution with HtrA1 and HtrA2.
 AU Nie Gui-Ying; Hampton Anne; Li Ying; Findlay Jock K; Salamonsen
 Lois A
 CS Prince Henry's Institute of Medical Research, P.O. Box 5152, 246
 Clayton
 Road, Clayton, Victoria 3168, Australia..
 guiying.nie@med.monash.edu.au
 SO Biochemical journal, (2003 Apr 1) 371 (Pt 1) 39-48.
 Journal code: 2984726R. ISSN: 0264-6021.
 CY England: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 200305
 ED Entered STN: 20030321
 Last Updated on STN: 20030523
 Entered Medline: 20030522
 AB In the present study, we identified an additional member of the
 human
 high-temperature requirement factor A (HtrA) protein family,
 called
 pregnancy-related serine protease or HtrA3, which was most highly
 expressed in the heart and placenta. We cloned the full-length
 sequences
 of two forms (long and short) of **human HtrA3** mRNA,
 located the gene on chromosome 4p16.1, determined its genomic
 structure
 and revealed how the two mRNA variants are produced through
 alternative
 splicing. The alternative splicing was also verified by Northern
 blotting. Four distinct domains were found for the long form
 HtrA3
 protein: (i) an insulin/insulin-like growth factor binding
 domain, (ii) a
 Kazal-type S protease-inhibitor domain, (iii) a trypsin protease
 domain
 and (iv) a PDZ domain. The short form is identical to the long
 form
 except it lacks the PDZ domain. Comparison of all members of
 human HtrA
 proteins, including their isoforms, suggests that both isoforms
 of HtrA3
 represent active serine proteases, that they may have different
 substrate
 specificities and that HtrA3 may have similar functions to
 HtrA1. All
 three HtrA family members showed very different mRNA-expression
 patterns

in 76 human tissues, indicating a specific function for each.
Interestingly, both HtrA1 and HtrA3 are highly expressed in the placenta.

Identification of the tissue-specific function of each HtrA family member
is clearly of importance.

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